

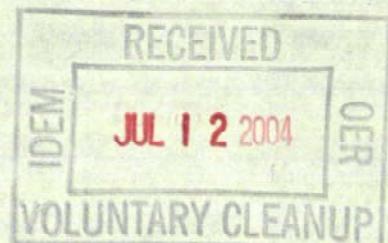
VRP# 4061202

MUNDELL & ASSOCIATES, INC.

429 East Vermont Street, Suite 200, Indianapolis, Indiana 46202-3688
Phone: 317-630-9060, Fax: 317-630-9065, email: info@MundellAssociates.com

June 30, 2004

Mr. Daniel P. McInerny, Esq.
Bose McKinney & Evans
2700 First Indiana Plaza
135 North Pennsylvania Street
Indianapolis, IN 46204



Re: **Keramida Split Groundwater Sampling Event – March 2004**
Michigan Meadows Apartments
3800 West Michigan Street
Indianapolis, IN
MUNDELL Project No.: M01046

Dear Mr. McInerny:

MUNDELL & ASSOCIATES, INC. (MUNDELL) is pleased to submit this letter summarizing the groundwater split sampling event performed at the above-referenced property (Site) with Keramida Environmental Inc. (Keramida). The following summarizes the scope of services and the results of the sampling.

Background

The Site has been under investigation in order to evaluate the off-site impacts of the former GM AGT Plant 10, located north of the Michigan Meadows property. As a part of the *Phase II* investigation for the *Remediation Work Plan (RWP)* (March 2002; October 2002), Keramida conducted off-site subsurface sampling for volatile organic chemicals (VOCs), including testing at 3800 to 3823 West Michigan Street and the surrounding areas. Off-Site groundwater samples taken from both the shallow and deep groundwater system indicated chlorinated solvent groundwater impacts (most notably cis-1,2-Dichloroethene (cis-1,2-DCE) and vinyl chloride) beneath the Michigan Meadows Apartments above VRP Tier II Residential and Non-residential cleanup goals.

March 2004 Groundwater Sampling

On March 11, 2004, four monitoring wells (MW-165S, MW-165D, MW-166S, MW-166D) were sampled by Keramida. MUNDELL staff was present on Site to witness the sampling and split the samples. The total well depths and the depth to the top of groundwater were measured, and are summarized in Table 1.

Low Flow Methodology

The monitoring wells were sampled by Keramida using the low flow sampling method (Micropurge system). The Micropurge system included a pneumatic pump set up, which enabled uniform purging. The 'Hydrolab' water quality multiprobe was used to measure parameters such as dissolved oxygen, specific conductivity, temperature, ORP (Oxidation Reduction Potential), and pH of the

groundwater. Successive parameter readings were taken, and the sample was collected only when uniform consecutive readings were obtained (stabilized).

Sample Collection and Analysis

The groundwater samples were collected and placed into amber glass vials with HCL as a preservative. The samples were then immediately placed on ice for transport to the laboratory. MUNDELL split the groundwater samples taken from monitoring wells MW-165S, MW-165D, MW-166S, MW-166D for independent analysis.

The groundwater samples split with MUNDELL were analyzed for VOCs (Volatile Organic Compounds) via U.S. EPA SW846 Method 8260 by Pace Analytical Laboratories in Indianapolis, Indiana. The analytical results of the groundwater sample split with MUNDELL are presented in Appendix A.

Sample Analysis Results

The groundwater sample taken from the deep groundwater system (MW-165D) indicated dissolved chlorinated solvent groundwater impacts (most notably cis-1,2-DCE and vinyl chloride) beneath the Michigan Meadows Apartments above VRP Tier II Residential and Non-residential cleanup goals. A vinyl chloride concentration of 720 ug/l and a cis-1,2-DCE concentration of 2,300 ug/l were exhibited. In addition, trans-1,2-Dichloroethene was detected at a concentration of 17.0 ug/l.

The groundwater sample taken from the deep groundwater system (MW-166D) indicated dissolved chlorinated solvent groundwater impacts (most notably cis-1,2-DCE and vinyl chloride) beneath the Michigan Meadows Apartments above VRP Tier II Residential and Non-residential cleanup goals. A vinyl chloride concentration of 440 ug/l and a cis-1,2-DCE concentration of 2,100 ug/l were exhibited. In addition, lower concentrations of 1,1-Dichloroethene (5.9 ug/l) and trans-1,2-Dichloroethene (8.5 ug/l), which were slightly above the laboratory reporting limits, were also detected.

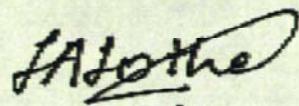
The groundwater sample taken from the shallow groundwater system (MW-165S) indicated dissolved chlorinated solvent groundwater impacts (cis-1,2-DCE and vinyl chloride) beneath the Michigan Meadows Apartments. A vinyl chloride concentration of 12 ug/l and a cis-1,2-DCE concentration of 21 ug/l were exhibited. The vinyl chloride concentration exceeded the VRP Tier II Residential and Non-residential cleanup goals, but the cis-1,2-DCE concentration was well below the VRP Tier II Residential and Non-residential cleanup goals.

The groundwater sample taken from the shallow groundwater system (MW-166S) indicated dissolved chlorinated solvent groundwater impacts (cis-1,2-DCE and vinyl chloride) beneath the Michigan Meadows Apartments. A vinyl chloride concentration of 5.8 ug/l and a cis-1,2-DCE concentration of 110 ug/l were exhibited. Both the vinyl chloride and the cis 1,2-DCE concentrations exceeded the VRP Tier II Residential cleanup goals, but not the VRP Tier II Non-residential cleanup goals.

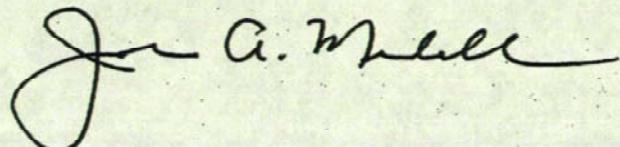
If you should have any questions regarding the enclosed results, please do not hesitate to contact us (317-630-9060).

Sincerely,

MUNDELL & ASSOCIATES, INC.



Leena A. Lothe
Staff Environmental Engineer



John A. Mundell, P.E., L.P.G.
President/Senior Environmental Consultant

/lal

Attachments: Appendix A, Groundwater Sample Analytical Results

TABLES**Table 1. Groundwater Level Data**

Table 1.**Groundwater Level Data****Keramida Environmental, Inc. March 2004 Sampling Event****Michigan Meadows Apartments****3800 West Michigan Street****Indianapolis, Indiana**

Well I.D.	Total Well Depth, ft	Depth to Top of Groundwater, ft
MW-165D	46.85	13.71
MW-166D	50.3	14.35
MW- 165S	19.75	13.93
MW-166S	19.50	14.61

APPENDIX A**Groundwater Sample Analytical Results**



March 16, 2004

Mr. Jason Lougheed
Mundell & Associates, Inc.
429 E. Vermont St, Suite 200
Indianapolis, IN 46202

RE: Lab Project Number: 5033966
Client Project ID: Michigan Meadows / M01046

Dear Mr. Lougheed:

Enclosed are the analytical results for sample(s) received by the laboratory on March 11, 2004. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Cheryl Crum".
Cheryl Crum
ccrum@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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Lab Project Number: 5033966

Client Project ID: Michigan Meadows / M01046

Lab Sample No: 503227126
Client Sample ID: TR-BL

Project Sample Number: 5033966-001

Date Collected: 03/11/04 09:30
Matrix: Water Date Received: 03/11/04 12:15

Parameters	Results	Units	Report Limit	DF	Analyzed By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260								
Dichlorodifluoromethane	ND	ug/l	5.0	1.0	03/12/04 12:24 HEB	75-71-8		
Chloromethane	ND	ug/l	5.0	1.0	03/12/04 12:24 HEB	74-87-3		
Vinyl chloride	ND	ug/l	2.0	1.0	03/12/04 12:24 HEB	75-01-4		
Bromomethane	ND	ug/l	5.0	1.0	03/12/04 12:24 HEB	74-83-9		
Chloroethane	ND	ug/l	5.0	1.0	03/12/04 12:24 HEB	75-00-3		
Trichlorofluoromethane	ND	ug/l	5.0	1.0	03/12/04 12:24 HEB	75-69-4		
Methylene chloride	ND	ug/l	5.0	1.0	03/12/04 12:24 HEB	75-09-2		
1,1-Dichloroethene	ND	ug/l	5.0	1.0	03/12/04 12:24 HEB	75-35-4		
trans-1,2-Dichloroethene	ND	ug/l	5.0	1.0	03/12/04 12:24 HEB	156-60-5		
1,1-Dichloroethane	ND	ug/l	5.0	1.0	03/12/04 12:24 HEB	75-34-3		
2,2-Dichloropropane	ND	ug/l	5.0	1.0	03/12/04 12:24 HEB	594-20-7		
cis-1,2-Dichloroethene	ND	ug/l	5.0	1.0	03/12/04 12:24 HEB	156-59-2		
Chloroform	ND	ug/l	5.0	1.0	03/12/04 12:24 HEB	67-66-3		
Bromoform	ND	ug/l	5.0	1.0	03/12/04 12:24 HEB	74-97-5		
Bromochloromethane	ND	ug/l	5.0	1.0	03/12/04 12:24 HEB	71-55-6		
1,1,1-Trichloroethane	ND	ug/l	5.0	1.0	03/12/04 12:24 HEB	56-23-5		
Carbon tetrachloride	ND	ug/l	5.0	1.0	03/12/04 12:24 HEB	563-58-6		
1,1-Dichloropropene	ND	ug/l	5.0	1.0	03/12/04 12:24 HEB	127-18-4		
Benzene	ND	ug/l	5.0	1.0	03/12/04 12:24 HEB	71-43-2		
1,2-Dichloroethane	ND	ug/l	5.0	1.0	03/12/04 12:24 HEB	107-06-2		
Trichloroethene	ND	ug/l	5.0	1.0	03/12/04 12:24 HEB	79-01-6		
1,2-Dichloropropane	ND	ug/l	5.0	1.0	03/12/04 12:24 HEB	78-87-5		
Bromodichloromethane	ND	ug/l	5.0	1.0	03/12/04 12:24 HEB	75-27-4		
Dibromomethane	ND	ug/l	5.0	1.0	03/12/04 12:24 HEB	74-95-3		
Toluene	ND	ug/l	5.0	1.0	03/12/04 12:24 HEB	108-88-3		
1,1,2-Trichloroethane	ND	ug/l	5.0	1.0	03/12/04 12:24 HEB	79-00-5		
Tetrachloroethene	ND	ug/l	5.0	1.0	03/12/04 12:24 HEB	127-18-4		
1,3-Dichloropropane	ND	ug/l	5.0	1.0	03/12/04 12:24 HEB	142-28-9		
Dibromochloromethane	ND	ug/l	5.0	1.0	03/12/04 12:24 HEB	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/l	5.0	1.0	03/12/04 12:24 HEB	106-93-4		
Chlorobenzene	ND	ug/l	5.0	1.0	03/12/04 12:24 HEB	108-90-7		
1,1,2-Tetrachloroethane	ND	ug/l	5.0	1.0	03/12/04 12:24 HEB	630-20-6		
Ethylbenzene	ND	ug/l	5.0	1.0	03/12/04 12:24 HEB	100-41-4		
m,p-Xylene	ND	ug/l	5.0	1.0	03/12/04 12:24 HEB			
c-Xylene	ND	ug/l	5.0	1.0	03/12/04 12:24 HEB	95-47-6		
Styrene	ND	ug/l	5.0	1.0	03/12/04 12:24 HEB	100-42-5		
Bromoform	ND	ug/l	5.0	1.0	03/12/04 12:24 HEB	75-25-2		
Isopropylbenzene (Cumene)	ND	ug/l	5.0	1.0	03/12/04 12:24 HEB	98-82-8		

Date: 03/16/04

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 5033966

Client Project ID: Michigan Meadows / M01046

Lab Sample No: 503227126	Project Sample Number: 5033966-001	Date Collected: 03/11/04 09:30
Client Sample ID: TR-BL	Matrix: Water	Date Received: 03/11/04 12:15

Parameters	Results	Units	Report Limit	DF	Analyzed By	CAS No.	Qual	RegLmt
1,1,2,2-Tetrachloroethane	ND	ug/l	5.0	1.0	03/12/04 12:24 HEB	79-34-5		
Bromobenzene	ND	ug/l	5.0	1.0	03/12/04 12:24 HEB	108-86-1		
1,2,3-Trichloropropane	ND	ug/l	5.0	1.0	03/12/04 12:24 HEB	96-18-4		
n-Propylbenzene	ND	ug/l	5.0	1.0	03/12/04 12:24 HEB	103-65-1		
2-Chlorotoluene	ND	ug/l	5.0	1.0	03/12/04 12:24 HEB	95-49-8		
1,3,5-Trimethylbenzene	ND	ug/l	5.0	1.0	03/12/04 12:24 HEB	108-67-8		
4-Chlorotoluene	ND	ug/l	5.0	1.0	03/12/04 12:24 HEB	106-43-4		
1,2,4-Trimethylbenzene	ND	ug/l	5.0	1.0	03/12/04 12:24 HEB	95-63-6		
sec-Butylbenzene	ND	ug/l	5.0	1.0	03/12/04 12:24 HEB	135-98-8		
tert-Butylbenzene	ND	ug/l	5.0	1.0	03/12/04 12:24 HEB	98-06-6		
p-Isopropyltoluene	ND	ug/l	5.0	1.0	03/12/04 12:24 HEB	99-87-6		
1,3-Dichlorobenzene	ND	ug/l	5.0	1.0	03/12/04 12:24 HEB	541-73-1		
1,4-Dichlorobenzene	ND	ug/l	5.0	1.0	03/12/04 12:24 HEB	106-46-7		
n-Butylbenzene	ND	ug/l	5.0	1.0	03/12/04 12:24 HEB	104-51-8		
1,2-Dichlorobenzene	ND	ug/l	5.0	1.0	03/12/04 12:24 HEB	95-50-1		
1,2-Dibromo-3-chloropropane	ND	ug/l	5.0	1.0	03/12/04 12:24 HEB	96-12-8		
1,2,4-Trichlorobenzene	ND	ug/l	5.0	1.0	03/12/04 12:24 HEB	120-82-1		
Hexachloro-1,3-butadiene	ND	ug/l	5.0	1.0	03/12/04 12:24 HEB	87-68-3		
Naphthalene	ND	ug/l	5.0	1.0	03/12/04 12:24 HEB	91-20-3		
1,2,3-Trichlorobenzene	ND	ug/l	5.0	1.0	03/12/04 12:24 HEB	87-61-6		
trans-1,3-Dichloropropene	ND	ug/l	5.0	1.0	03/12/04 12:24 HEB	10061-02-6		
cis-1,3-Dichloropropene	ND	ug/l	5.0	1.0	03/12/04 12:24 HEB	10061-01-5		
2-Chloroethylvinyl ether	ND	ug/l	10.	1.0	03/12/04 12:24 HEB	110-75-8		
Acetone	ND	ug/l	25.	1.0	03/12/04 12:24 HEB	67-64-1		
2-Butanone (MEK)	ND	ug/l	10.	1.0	03/12/04 12:24 HEB	78-93-3		
4-Methyl-2-pentanone (MIBK)	ND	ug/l	10.	1.0	03/12/04 12:24 HEB	108-10-1		
Acrolein	ND	ug/l	50.	1.0	03/12/04 12:24 HEB	107-02-8		
Acrylonitrile	ND	ug/l	50.	1.0	03/12/04 12:24 HEB	107-13-1		
2-Hexanone	ND	ug/l	10.	1.0	03/12/04 12:24 HEB	591-78-6		
Vinyl acetate	ND	ug/l	10.	1.0	03/12/04 12:24 HEB	108-05-4		
Iodomethane	ND	ug/l	10.	1.0	03/12/04 12:24 HEB	74-88-4		
Methyl-tert-butyl ether	ND	ug/l	5.0	1.0	03/12/04 12:24 HEB	1634-04-4		
Carbon disulfide	ND	ug/l	5.0	1.0	03/12/04 12:24 HEB	75-15-0		
trans-1,4-Dichloro-2-butene	ND	ug/l	100	1.0	03/12/04 12:24 HEB	110-57-6		
Ethyl methacrylate	ND	ug/l	100	1.0	03/12/04 12:24 HEB	97-63-2		
Xylene (Total)	ND	ug/l	10.	1.0	03/12/04 12:24 HEB	1330-20-7		
Dibromofluoromethane (S)	100	t				1.0 03/12/04 12:24 HEB	1868-53-7	
Toluene-d8 (S)	93	t				1.0 03/12/04 12:24 HEB	2037-26-5	
4-Bromofluorobenzene (S)	102	t				1.0 03/12/04 12:24 HEB	460-00-4	

Date: 03/16/04

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 5033966
 Client Project ID: Michigan Meadows / M01046

 Lab Sample No: 503227134 Project Sample Number: 5033966-002 Date Collected: 03/11/04 09:45
 Client Sample ID: MW-166D Matrix: Water Date Received: 03/11/04 12:15

Parameters	Results	Units	Report Limit	DF	Analyzed By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260								
Method: EPA 8260								
Dichlorodifluoromethane	ND	ug/l	5.0	1.0 03/12/04 12:56 HEB	75-71-8			
Chloromethane	ND	ug/l	5.0	1.0 03/12/04 12:56 HEB	74-87-3			
Vinyl chloride	440	ug/l	50.	25.0 03/15/04 20:51 HEB	75-01-4			
Bromomethane	ND	ug/l	5.0	1.0 03/12/04 12:56 HEB	74-83-9			
Chloroethane	ND	ug/l	5.0	1.0 03/12/04 12:56 HEB	75-00-3			
Trichlorofluoromethane	ND	ug/l	5.0	1.0 03/12/04 12:56 HEB	75-69-4			
Methylene chloride	ND	ug/l	5.0	1.0 03/12/04 12:56 HEB	75-09-2			
1,1-Dichloroethene	5.9	ug/l	5.0	1.0 03/12/04 12:56 HEB	75-35-4			
trans-1,2-Dichloroethene	8.5	ug/l	5.0	1.0 03/12/04 12:56 HEB	156-60-5			
1,1-Dichloroethane	ND	ug/l	5.0	1.0 03/12/04 12:56 HEB	75-34-3			
2,2-Dichloropropane	ND	ug/l	5.0	1.0 03/12/04 12:56 HEB	594-20-7			
cis-1,2-Dichloroethene	2100	ug/l	120	25.0 03/15/04 20:51 HEB	156-59-2			
Chloroform	ND	ug/l	5.0	1.0 03/12/04 12:56 HEB	67-66-3			
Bromoform	ND	ug/l	5.0	1.0 03/12/04 12:56 HEB	74-97-5			
1,1,1-Trichloroethane	ND	ug/l	5.0	1.0 03/12/04 12:56 HEB	71-55-6			
Carbon tetrachloride	ND	ug/l	5.0	1.0 03/12/04 12:56 HEB	56-23-5			
1,1-Dichloropropene	ND	ug/l	5.0	1.0 03/12/04 12:56 HEB	563-58-6			
Benzene	ND	ug/l	5.0	1.0 03/12/04 12:56 HEB	71-43-2			
1,2-Dichloroethane	ND	ug/l	5.0	1.0 03/12/04 12:56 HEB	107-06-2			
Trichloroethene	ND	ug/l	5.0	1.0 03/12/04 12:56 HEB	79-01-6			
1,2-Dichloropropane	ND	ug/l	5.0	1.0 03/12/04 12:56 HEB	78-87-5			
Bromodichloromethane	ND	ug/l	5.0	1.0 03/12/04 12:56 HEB	75-27-4			
Dibromomethane	ND	ug/l	5.0	1.0 03/12/04 12:56 HEB	74-95-3			
Toluene	ND	ug/l	5.0	1.0 03/12/04 12:56 HEB	108-88-3			
1,1,2-Trichloroethane	ND	ug/l	5.0	1.0 03/12/04 12:56 HEB	79-00-5			
Tetrachloroethene	ND	ug/l	5.0	1.0 03/12/04 12:56 HEB	127-18-4			
1,3-Dichloropropane	ND	ug/l	5.0	1.0 03/12/04 12:56 HEB	142-28-9			
Dibromochloromethane	ND	ug/l	5.0	1.0 03/12/04 12:56 HEB	124-48-1			
1,2-Dibromoethane (EDB)	ND	ug/l	5.0	1.0 03/12/04 12:56 HEB	106-93-4			
Chlorobenzene	ND	ug/l	5.0	1.0 03/12/04 12:56 HEB	108-90-7			
1,1,1,2-Tetrachloroethane	ND	ug/l	5.0	1.0 03/12/04 12:56 HEB	630-20-6			
Ethylbenzene	ND	ug/l	5.0	1.0 03/12/04 12:56 HEB	100-41-4			
m,p-Xylene	ND	ug/l	5.0	1.0 03/12/04 12:56 HEB				
o-Xylene	ND	ug/l	5.0	1.0 03/12/04 12:56 HEB	95-47-6			
Styrene	ND	ug/l	5.0	1.0 03/12/04 12:56 HEB	100-42-5			
Bromoform	ND	ug/l	5.0	1.0 03/12/04 12:56 HEB	75-25-2			
Isopropylbenzene (Cumene)	ND	ug/l	5.0	1.0 03/12/04 12:56 HEB	98-82-8			

Date: 03/16/04

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 5033966

Client Project ID: Michigan Meadows / M01046

 Lab Sample No: 503227134
 Client Sample ID: MW-166D

Project Sample Number: 5033966-002

Date Collected: 03/11/04 09:45

Matrix: Water

Date Received: 03/11/04 12:15

Parameters	Results	Units	Report Limit	DF	Analyzed By	CAS No.	Qual	RegLmt
1,1,2,2-Tetrachloroethane	ND	ug/l	5.0	1.0	03/12/04 12:56 HEB	79-34-5		
Bromobenzene	ND	ug/l	5.0	1.0	03/12/04 12:56 HEB	108-86-1		
1,2,3-Trichloropropane	ND	ug/l	5.0	1.0	03/12/04 12:56 HEB	96-18-4		
n-Propylbenzene	ND	ug/l	5.0	1.0	03/12/04 12:56 HEB	103-65-1		
2-Chlorotoluene	ND	ug/l	5.0	1.0	03/12/04 12:56 HEB	95-49-8		
1,3,5-Trimethylbenzene	ND	ug/l	5.0	1.0	03/12/04 12:56 HEB	108-67-8		
4-Chlorotoluene	ND	ug/l	5.0	1.0	03/12/04 12:56 HEB	106-43-4		
1,2,4-Trimethylbenzene	ND	ug/l	5.0	1.0	03/12/04 12:56 HEB	95-63-6		
sec-Butylbenzene	ND	ug/l	5.0	1.0	03/12/04 12:56 HEB	135-98-8		
tert-Butylbenzene	ND	ug/l	5.0	1.0	03/12/04 12:56 HEB	98-06-6		
p-Isopropyltoluene	ND	ug/l	5.0	1.0	03/12/04 12:56 HEB	99-87-6		
1,3-Dichlorobenzene	ND	ug/l	5.0	1.0	03/12/04 12:56 HEB	541-73-1		
1,4-Dichlorobenzene	ND	ug/l	5.0	1.0	03/12/04 12:56 HEB	106-46-7		
n-Butylbenzene	ND	ug/l	5.0	1.0	03/12/04 12:56 HEB	104-51-8		
1,2-Dichlorobenzene	ND	ug/l	5.0	1.0	03/12/04 12:56 HEB	95-50-1		
1,2-Dibromo-3-chloropropane	ND	ug/l	5.0	1.0	03/12/04 12:56 HEB	96-12-8		
1,2,4-Trichlorobenzene	ND	ug/l	5.0	1.0	03/12/04 12:56 HEB	120-82-1		
Hexachloro-1,3-butadiene	ND	ug/l	5.0	1.0	03/12/04 12:56 HEB	87-68-3		
Naphthalene	ND	ug/l	5.0	1.0	03/12/04 12:56 HEB	91-20-3		
1,2,3-Trichlorobenzene	ND	ug/l	5.0	1.0	03/12/04 12:56 HEB	87-61-6		
trans-1,3-Dichloropropene	ND	ug/l	5.0	1.0	03/12/04 12:56 HEB	10061-02-6		
cis-1,3-Dichloropropene	ND	ug/l	5.0	1.0	03/12/04 12:56 HEB	10061-01-5		
2-Chloroethylvinyl ether	ND	ug/l	10.	1.0	03/12/04 12:56 HEB	110-75-8		
Acetone	ND	ug/l	25.	1.0	03/12/04 12:56 HEB	67-64-1		
2-Butanone (MEK)	ND	ug/l	10.	1.0	03/12/04 12:56 HEB	78-93-3		
4-Methyl-2-pentanone (MIBK)	ND	ug/l	10.	1.0	03/12/04 12:56 HEB	108-10-1		
Acrolein	ND	ug/l	50.	1.0	03/12/04 12:56 HEB	107-02-8		
Acrylonitrile	ND	ug/l	50.	1.0	03/12/04 12:56 HEB	107-13-1		
2-Hexanone	ND	ug/l	10.	1.0	03/12/04 12:56 HEB	591-78-6		
Vinyl acetate	ND	ug/l	10.	1.0	03/12/04 12:56 HEB	108-05-4		
Iodomethane	ND	ug/l	10.	1.0	03/12/04 12:56 HEB	74-88-4		
Methyl-tert-butyl ether	ND	ug/l	5.0	1.0	03/12/04 12:56 HEB	1634-04-4		
Carbon disulfide	ND	ug/l	5.0	1.0	03/12/04 12:56 HEB	75-15-0		
trans-1,4-Dichloro-2-butene	ND	ug/l	100	1.0	03/12/04 12:56 HEB	110-57-6		
Ethyl methacrylate	ND	ug/l	100	1.0	03/12/04 12:56 HEB	97-63-2		
Xylene (Total)	ND	ug/l	10.	1.0	03/12/04 12:56 HEB	1330-20-7		
Dibromofluoromethane (S)	102	%			1.0	03/12/04 12:56 HEB	1868-53-7	
Toluene-d8 (S)	96	%			1.0	03/12/04 12:56 HEB	2037-26-5	
4-Bromofluorobenzene (S)	91	%			1.0	03/12/04 12:56 HEB	460-00-4	

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 5033966

Client Project ID: Michigan Meadows / M01046

Lab Sample No: 503227142
Client Sample ID: MW-166S

Project Sample Number: 5033966-003

Date Collected: 03/11/04 10:15
Matrix: Water Date Received: 03/11/04 12:15

Parameters	Results	Units	Report Limit	DF	Analyzed By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260								
Dichlorodifluoromethane	ND	ug/l	5.0	1.0	03/12/04 13:29 HEB	75-71-8		
Chloromethane	ND	ug/l	5.0	1.0	03/12/04 13:29 HEB	74-87-3		
Vinyl chloride	5.8	ug/l	2.0	1.0	03/12/04 13:29 HEB	75-01-4		
Bromomethane	ND	ug/l	5.0	1.0	03/12/04 13:29 HEB	74-83-9		
Chloroethane	ND	ug/l	5.0	1.0	03/12/04 13:29 HEB	75-00-3		
Trichlorofluoromethane	ND	ug/l	5.0	1.0	03/12/04 13:29 HEB	75-69-4		
Methylene chloride	ND	ug/l	5.0	1.0	03/12/04 13:29 HEB	75-09-2		
1,1-Dichloroethene	ND	ug/l	5.0	1.0	03/12/04 13:29 HEB	75-35-4		
trans-1,2-Dichloroethene	ND	ug/l	5.0	1.0	03/12/04 13:29 HEB	156-60-5		
1,1-Dichloroethane	ND	ug/l	5.0	1.0	03/12/04 13:29 HEB	75-34-3		
2,2-Dichloropropane	ND	ug/l	5.0	1.0	03/12/04 13:29 HEB	594-20-7		
cis-1,2-Dichloroethene	110	ug/l	5.0	1.0	03/15/04 19:47 HEB	156-59-2	1	
Chloroform	ND	ug/l	5.0	1.0	03/12/04 13:29 HEB	67-66-3		
Bromoform	ND	ug/l	5.0	1.0	03/12/04 13:29 HEB	74-97-5		
Bromochloromethane	ND	ug/l	5.0	1.0	03/12/04 13:29 HEB	71-55-6		
1,1,1-Trichloroethane	ND	ug/l	5.0	1.0	03/12/04 13:29 HEB	56-23-5		
Carbon tetrachloride	ND	ug/l	5.0	1.0	03/12/04 13:29 HEB	563-58-6		
1,1-Dichloropropene	ND	ug/l	5.0	1.0	03/12/04 13:29 HEB	71-43-2		
Benzene	ND	ug/l	5.0	1.0	03/12/04 13:29 HEB	107-06-2		
1,2-Dichloroethane	ND	ug/l	5.0	1.0	03/12/04 13:29 HEB	79-01-6		
Trichloroethene	ND	ug/l	5.0	1.0	03/12/04 13:29 HEB	78-87-5		
1,2-Dichloropropane	ND	ug/l	5.0	1.0	03/12/04 13:29 HEB	75-27-4		
Bromodichloromethane	ND	ug/l	5.0	1.0	03/12/04 13:29 HEB	74-95-3		
Dibromomethane	ND	ug/l	5.0	1.0	03/12/04 13:29 HEB	108-88-3		
Toluene	ND	ug/l	5.0	1.0	03/12/04 13:29 HEB	79-00-5		
1,1,2-Trichloroethane	ND	ug/l	5.0	1.0	03/12/04 13:29 HEB	127-18-4		
Tetrachloroethene	ND	ug/l	5.0	1.0	03/12/04 13:29 HEB	142-28-9		
1,3-Dichloropropane	ND	ug/l	5.0	1.0	03/12/04 13:29 HEB	124-48-1		
Dibromochloromethane	ND	ug/l	5.0	1.0	03/12/04 13:29 HEB	106-93-4		
1,2-Dibromoethane (EDB)	ND	ug/l	5.0	1.0	03/12/04 13:29 HEB	108-90-7		
Chlorobenzene	ND	ug/l	5.0	1.0	03/12/04 13:29 HEB	630-20-6		
1,1,1,2-Tetrachloroethane	ND	ug/l	5.0	1.0	03/12/04 13:29 HEB	100-41-4		
Ethylbenzene	ND	ug/l	5.0	1.0	03/12/04 13:29 HEB	95-47-6		
m,p-Xylene	ND	ug/l	5.0	1.0	03/12/04 13:29 HEB	100-42-5		
c-Xylene	ND	ug/l	5.0	1.0	03/12/04 13:29 HEB	75-25-2		
Styrene	ND	ug/l	5.0	1.0	03/12/04 13:29 HEB	98-82-8		
Bromoform	ND	ug/l	5.0	1.0	03/12/04 13:29 HEB			
Isopropylbenzene (Cumene)	ND	ug/l	5.0	1.0	03/12/04 13:29 HEB			

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 5033966
 Client Project ID: Michigan Meadows / M01046

Lab Sample No:	503227142	Project Sample Number:	5033966-003	Date Collected:	03/11/04 10:15
Client Sample ID:	MW-1665	Matrix:	Water	Date Received:	03/11/04 12:15

Parameters	Results	Units	Report Limit	DF	Analyzed By	CAS No.	Qual	RegLmt
1,1,2,2-Tetrachloroethane	ND	ug/l	5.0	1.0	03/12/04 13:29 HEB	79-34-5		
Bromobenzene	ND	ug/l	5.0	1.0	03/12/04 13:29 HEB	108-86-1		
1,2,3-Trichloropropane	ND	ug/l	5.0	1.0	03/12/04 13:29 HEB	96-18-4		
n-Propylbenzene	ND	ug/l	5.0	1.0	03/12/04 13:29 HEB	103-65-1		
2-Chlorotoluene	ND	ug/l	5.0	1.0	03/12/04 13:29 HEB	95-49-8		
1,3,5-Trimethylbenzene	ND	ug/l	5.0	1.0	03/12/04 13:29 HEB	108-67-8		
4-Chlorotoluene	ND	ug/l	5.0	1.0	03/12/04 13:29 HEB	106-43-4		
1,2,4-Trimethylbenzene	ND	ug/l	5.0	1.0	03/12/04 13:29 HEB	95-63-6		
sec-Butylbenzene	ND	ug/l	5.0	1.0	03/12/04 13:29 HEB	135-98-8		
tert-Butylbenzene	ND	ug/l	5.0	1.0	03/12/04 13:29 HEB	98-06-6		
p-Isopropyltoluene	ND	ug/l	5.0	1.0	03/12/04 13:29 HEB	99-87-6		
1,3-Dichlorobenzene	ND	ug/l	5.0	1.0	03/12/04 13:29 HEB	541-73-1		
1,4-Dichlorobenzene	ND	ug/l	5.0	1.0	03/12/04 13:29 HEB	106-46-7		
n-Butylbenzene	ND	ug/l	5.0	1.0	03/12/04 13:29 HEB	104-51-8		
1,2-Dichlorobenzene	ND	ug/l	5.0	1.0	03/12/04 13:29 HEB	95-50-1		
1,2-Dibromo-3-chloropropane	ND	ug/l	5.0	1.0	03/12/04 13:29 HEB	96-12-8		
1,2,4-Trichlorobenzene	ND	ug/l	5.0	1.0	03/12/04 13:29 HEB	120-82-1		
Hexachloro-1,3-butadiene	ND	ug/l	5.0	1.0	03/12/04 13:29 HEB	87-68-3		
Naphthalene	ND	ug/l	5.0	1.0	03/12/04 13:29 HEB	91-20-3		
1,2,3-Trichlorobenzene	ND	ug/l	5.0	1.0	03/12/04 13:29 HEB	87-61-6		
trans-1,3-Dichloropropene	ND	ug/l	5.0	1.0	03/12/04 13:29 HEB	10061-02-6		
cis-1,3-Dichloropropene	ND	ug/l	5.0	1.0	03/12/04 13:29 HEB	10061-01-5		
2-Chloroethylvinyl ether	ND	ug/l	10.	1.0	03/12/04 13:29 HEB	110-75-8		
Acetone	ND	ug/l	25.	1.0	03/12/04 13:29 HEB	67-64-1		
2-Butanone (MEK)	ND	ug/l	10.	1.0	03/12/04 13:29 HEB	78-93-3		
4-Methyl-2-pentanone (MIBK)	ND	ug/l	10.	1.0	03/12/04 13:29 HEB	108-10-1		
Acrolein	ND	ug/l	50.	1.0	03/12/04 13:29 HEB	107-02-8		
Acrylonitrile	ND	ug/l	50.	1.0	03/12/04 13:29 HEB	107-13-1		
2-Hexanone	ND	ug/l	10.	1.0	03/12/04 13:29 HEB	591-78-6		
Vinyl acetate	ND	ug/l	10.	1.0	03/12/04 13:29 HEB	108-05-4		
Iodomethane	ND	ug/l	10.	1.0	03/12/04 13:29 HEB	74-88-4		
Methyl-tert-butyl ether	ND	ug/l	5.0	1.0	03/12/04 13:29 HEB	1634-04-4		
Carbon disulfide	ND	ug/l	5.0	1.0	03/12/04 13:29 HEB	75-15-0		
trans-1,4-Dichloro-2-butene	ND	ug/l	100	1.0	03/12/04 13:29 HEB	110-57-6		
Ethyl methacrylate	ND	ug/l	100	1.0	03/12/04 13:29 HEB	97-63-2		
Xylene (Total)	ND	ug/l	10.	1.0	03/12/04 13:29 HEB	1330-20-7		
Dibromofluoromethane (S)	107	%			1.0	03/12/04 13:29 HEB	1868-53-7	
Toluene-d8 (S)	94	%			1.0	03/12/04 13:29 HEB	2037-26-5	
4-Bromofluorobenzene (S)	88	%			1.0	03/12/04 13:29 HEB	460-00-4	

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Lab Project Number: 5033966
Client Project ID: Michigan Meadows / M01046

Lab Sample No: 503227159 Project Sample Number: 5033966-004 Date Collected: 03/11/04 10:45
Client Sample ID: MW-165D Matrix: Water Date Received: 03/11/04 12:15

Parameters	Results	Units	Report Limit	DF	Analyzed By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260								
Dichlorodifluoromethane	ND	ug/l	5.0	1.0	03/12/04 14:01 HEB	75-71-8		
Chloromethane	ND	ug/l	5.0	1.0	03/12/04 14:01 HEB	74-87-3		
Vinyl chloride	720	ug/l	50.	25.0	03/15/04 21:23 HEB	75-01-4		
Bromomethane	ND	ug/l	5.0	1.0	03/12/04 14:01 HEB	74-83-9		
Chloroethane	ND	ug/l	5.0	1.0	03/12/04 14:01 HEB	75-00-3		
Trichlorofluoromethane	ND	ug/l	5.0	1.0	03/12/04 14:01 HEB	75-69-4		
Methylene chloride	ND	ug/l	5.0	1.0	03/12/04 14:01 HEB	75-09-2		
1,1-Dichloroethane	ND	ug/l	5.0	1.0	03/12/04 14:01 HEB	75-35-4		
trans-1,2-Dichloroethene	17.	ug/l	5.0	1.0	03/12/04 14:01 HEB	156-60-5		
1,1-Dichloroethane	ND	ug/l	5.0	1.0	03/12/04 14:01 HEB	75-34-3		
2,2-Dichloropropane	ND	ug/l	5.0	1.0	03/12/04 14:01 HEB	594-20-7		
cis-1,2-Dichloroethene	2300	ug/l	120	25.0	03/15/04 21:23 HEB	156-59-2		
Chloroform	ND	ug/l	5.0	1.0	03/12/04 14:01 HEB	67-66-3		
Bromoform	ND	ug/l	5.0	1.0	03/12/04 14:01 HEB	74-97-5		
1,1,1-Trichloroethane	ND	ug/l	5.0	1.0	03/12/04 14:01 HEB	71-55-6		
Carbon tetrachloride	ND	ug/l	5.0	1.0	03/12/04 14:01 HEB	56-23-5		
1,1-Dichloropropene	ND	ug/l	5.0	1.0	03/12/04 14:01 HEB	563-58-6		
Benzene	ND	ug/l	5.0	1.0	03/12/04 14:01 HEB	71-43-2		
1,2-Dichloroethane	ND	ug/l	5.0	1.0	03/12/04 14:01 HEB	107-06-2		
Trichloroethene	ND	ug/l	5.0	1.0	03/12/04 14:01 HEB	79-01-6		
1,2-Dichloropropane	ND	ug/l	5.0	1.0	03/12/04 14:01 HEB	78-87-5		
Bromodichloromethane	ND	ug/l	5.0	1.0	03/12/04 14:01 HEB	75-27-4		
Dibromomethane	ND	ug/l	5.0	1.0	03/12/04 14:01 HEB	74-95-3		
Toluene	ND	ug/l	5.0	1.0	03/12/04 14:01 HEB	108-88-3		
1,1,2-Trichloroethane	ND	ug/l	5.0	1.0	03/12/04 14:01 HEB	79-00-5		
Tetrachloroethene	ND	ug/l	5.0	1.0	03/12/04 14:01 HEB	127-18-4		
1,3-Dichloropropane	ND	ug/l	5.0	1.0	03/12/04 14:01 HEB	142-28-9		
Dibromochloromethane	ND	ug/l	5.0	1.0	03/12/04 14:01 HEB	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/l	5.0	1.0	03/12/04 14:01 HEB	106-93-4		
Chlorobenzene	ND	ug/l	5.0	1.0	03/12/04 14:01 HEB	108-90-7		
1,1,1,2-Tetrachloroethane	ND	ug/l	5.0	1.0	03/12/04 14:01 HEB	630-20-6		
Ethylbenzene	ND	ug/l	5.0	1.0	03/12/04 14:01 HEB	100-41-4		
m,p-Xylene	ND	ug/l	5.0	1.0	03/12/04 14:01 HEB			
o-Xylene	ND	ug/l	5.0	1.0	03/12/04 14:01 HEB	95-47-6		
Styrene	ND	ug/l	5.0	1.0	03/12/04 14:01 HEB	100-42-5		
Bromoform	ND	ug/l	5.0	1.0	03/12/04 14:01 HEB	75-25-2		
Isopropylbenzene (Cumene)	ND	ug/l	5.0	1.0	03/12/04 14:01 HEB	98-82-8		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 5033966

Client Project ID: Michigan Meadows / M01046

 Lab Sample No: 503227159
 Client Sample ID: MW-165D

Project Sample Number: 5033966-004

 Date Collected: 03/11/04 10:45
 Matrix: Water Date Received: 03/11/04 12:15

Parameters	Results	Units	Report Limit	DF	Analyzed By	CAS No.	Qual	RegLmt
1,1,2-Tetrachloroethane	ND	ug/l	5.0	1.0	03/12/04 14:01 HEB	79-34-5		
Bromobenzene	ND	ug/l	5.0	1.0	03/12/04 14:01 HEB	108-86-1		
1,2,3-Trichloropropane	ND	ug/l	5.0	1.0	03/12/04 14:01 HEB	96-18-4		
n-Propylbenzene	ND	ug/l	5.0	1.0	03/12/04 14:01 HEB	103-65-1		
2-Chlorotoluene	ND	ug/l	5.0	1.0	03/12/04 14:01 HEB	95-49-8		
1,3,5-Trimethylbenzene	ND	ug/l	5.0	1.0	03/12/04 14:01 HEB	108-67-8		
4-Chlorotoluene	ND	ug/l	5.0	1.0	03/12/04 14:01 HEB	106-43-4		
1,2,4-Trimethylbenzene	ND	ug/l	5.0	1.0	03/12/04 14:01 HEB	95-63-6		
sec-Butylbenzene	ND	ug/l	5.0	1.0	03/12/04 14:01 HEB	135-98-8		
tert-Butylbenzene	ND	ug/l	5.0	1.0	03/12/04 14:01 HEB	98-06-6		
p-Isopropyltoluene	ND	ug/l	5.0	1.0	03/12/04 14:01 HEB	99-87-6		
1,3-Dichlorobenzene	ND	ug/l	5.0	1.0	03/12/04 14:01 HEB	541-73-1		
1,4-Dichlorobenzene	ND	ug/l	5.0	1.0	03/12/04 14:01 HEB	106-46-7		
n-Butylbenzene	ND	ug/l	5.0	1.0	03/12/04 14:01 HEB	104-51-8		
1,2-Dichlorobenzene	ND	ug/l	5.0	1.0	03/12/04 14:01 HEB	95-50-1		
1,2-Dibromo-3-chloropropane	ND	ug/l	5.0	1.0	03/12/04 14:01 HEB	96-12-8		
1,2,4-Trichlorobenzene	ND	ug/l	5.0	1.0	03/12/04 14:01 HEB	120-82-1		
Hexachloro-1,3-butadiene	ND	ug/l	5.0	1.0	03/12/04 14:01 HEB	87-68-3		
Naphthalene	ND	ug/l	5.0	1.0	03/12/04 14:01 HEB	91-20-3		
1,2,3-Trichlorobenzene	ND	ug/l	5.0	1.0	03/12/04 14:01 HEB	87-61-6		
trans-1,3-Dichloropropene	ND	ug/l	5.0	1.0	03/12/04 14:01 HEB	10061-02-6		
cis-1,3-Dichloropropene	ND	ug/l	5.0	1.0	03/12/04 14:01 HEB	10061-01-5		
2-Chloroethylvinyl ether	ND	ug/l	10.	1.0	03/12/04 14:01 HEB	110-75-8		
Acetone	ND	ug/l	25.	1.0	03/12/04 14:01 HEB	67-64-1		
2-Butanone (MEK)	ND	ug/l	10.	1.0	03/12/04 14:01 HEB	78-93-3		
4-Methyl-2-pentanone (MIBK)	ND	ug/l	10.	1.0	03/12/04 14:01 HEB	108-10-1		
Acrolein	ND	ug/l	50.	1.0	03/12/04 14:01 HEB	107-02-8		
Acrylonitrile	ND	ug/l	50.	1.0	03/12/04 14:01 HEB	107-13-1		
2-Hexanone	ND	ug/l	10.	1.0	03/12/04 14:01 HEB	591-78-6		
Vinyl acetate	ND	ug/l	10.	1.0	03/12/04 14:01 HEB	108-05-4		
Iodomethane	ND	ug/l	10.	1.0	03/12/04 14:01 HEB	74-88-4		
Methyl-tert-butyl ether	ND	ug/l	5.0	1.0	03/12/04 14:01 HEB	1634-04-4		
Carbon disulfide	ND	ug/l	5.0	1.0	03/12/04 14:01 HEB	75-15-0		
trans-1,4-Dichloro-2-butene	ND	ug/l	100	1.0	03/12/04 14:01 HEB	110-57-6		
Ethyl methacrylate	ND	ug/l	100	1.0	03/12/04 14:01 HEB	97-63-2		
Xylene (Total)	ND	ug/l	10.	1.0	03/12/04 14:01 HEB	1330-20-7		
Dibromofluoromethane (S)	101	%				1.0	03/12/04 14:01 HEB	1868-53-7
Toluene-d8 (S)	96	%				1.0	03/12/04 14:01 HEB	2037-26-5
4-Bromofluorobenzene (S)	92	%				1.0	03/12/04 14:01 HEB	460-00-4

Date: 03/16/04

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Lab Project Number: 5033966
 Client Project ID: Michigan Meadows / M01046

 Lab Sample No: 503227167 Project Sample Number: 5033966-005 Date Collected: 03/11/04 11:15
 Client Sample ID: MW-165S Matrix: Water Date Received: 03/11/04 12:15

Parameters	Results	Units	Report Limit	DF	Analyzed By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260	Method: EPA 8260							
Dichlorodifluoromethane	ND	ug/l	5.0	1.0	03/12/04 14:33 HEB	75-71-8		
Chloromethane	ND	ug/l	5.0	1.0	03/12/04 14:33 HEB	74-87-3		
Vinyl chloride	12.	ug/l	2.0	1.0	03/12/04 14:33 HEB	75-01-4	2	
Bromomethane	ND	ug/l	5.0	1.0	03/12/04 14:33 HEB	74-83-9		
Chloroethane	ND	ug/l	5.0	1.0	03/12/04 14:33 HEB	75-00-3		
Trichlorofluoromethane	ND	ug/l	5.0	1.0	03/12/04 14:33 HEB	75-69-4		
Methylene chloride	ND	ug/l	5.0	1.0	03/12/04 14:33 HEB	75-09-2		
1,1-Dichloroethene	ND	ug/l	5.0	1.0	03/12/04 14:33 HEB	75-35-4		
trans-1,2-Dichloroethene	ND	ug/l	5.0	1.0	03/12/04 14:33 HEB	156-60-5		
1,1-Dichloroethane	ND	ug/l	5.0	1.0	03/12/04 14:33 HEB	75-34-3		
2,2-Dichloropropane	ND	ug/l	5.0	1.0	03/12/04 14:33 HEB	594-20-7		
cis-1,2-Dichloroethene	21.	ug/l	5.0	1.0	03/15/04 20:19 HEB	156-59-2	1	
Chloroform	ND	ug/l	5.0	1.0	03/12/04 14:33 HEB	67-66-3		
Bromochloromethane	ND	ug/l	5.0	1.0	03/12/04 14:33 HEB	74-97-5		
1,1,1-Trichloroethane	ND	ug/l	5.0	1.0	03/12/04 14:33 HEB	71-55-6		
Carbon tetrachloride	ND	ug/l	5.0	1.0	03/12/04 14:33 HEB	56-23-5		
1,1-Dichloropropene	ND	ug/l	5.0	1.0	03/12/04 14:33 HEB	563-58-6		
Benzene	ND	ug/l	5.0	1.0	03/12/04 14:33 HEB	71-43-2		
1,2-Dichloroethane	ND	ug/l	5.0	1.0	03/12/04 14:33 HEB	107-06-2		
Trichloroethene	ND	ug/l	5.0	1.0	03/12/04 14:33 HEB	79-01-6		
1,2-Dichloropropane	ND	ug/l	5.0	1.0	03/12/04 14:33 HEB	78-87-5		
Bromodichloromethane	ND	ug/l	5.0	1.0	03/12/04 14:33 HEB	75-27-4		
Dibromomethane	ND	ug/l	5.0	1.0	03/12/04 14:33 HEB	74-95-3		
Toluene	ND	ug/l	5.0	1.0	03/12/04 14:33 HEB	108-88-3		
1,1,2-Trichloroethane	ND	ug/l	5.0	1.0	03/12/04 14:33 HEB	79-00-5		
Tetrachloroethene	ND	ug/l	5.0	1.0	03/12/04 14:33 HEB	127-18-4		
1,3-Dichloropropane	ND	ug/l	5.0	1.0	03/12/04 14:33 HEB	142-28-9		
Dibromochloromethane	ND	ug/l	5.0	1.0	03/12/04 14:33 HEB	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/l	5.0	1.0	03/12/04 14:33 HEB	106-93-4		
Chlorobenzene	ND	ug/l	5.0	1.0	03/12/04 14:33 HEB	108-90-7		
1,1,1,2-Tetrachloroethane	ND	ug/l	5.0	1.0	03/12/04 14:33 HEB	630-20-6		
Ethylbenzene	ND	ug/l	5.0	1.0	03/12/04 14:33 HEB	100-41-4		
m,p-Xylene	ND	ug/l	5.0	1.0	03/12/04 14:33 HEB			
o-Xylene	ND	ug/l	5.0	1.0	03/12/04 14:33 HEB	95-47-6		
Styrene	ND	ug/l	5.0	1.0	03/12/04 14:33 HEB	100-42-5		
Bromoform	ND	ug/l	5.0	1.0	03/12/04 14:33 HEB	75-25-2		
Isopropylbenzene (Cumene)	ND	ug/l	5.0	1.0	03/12/04 14:33 HEB	98-82-8		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 5033966

Client Project ID: Michigan Meadows / M01046

 Lab Sample No: 503227167
 Client Sample ID: MW-165S

Project Sample Number: 5033966-005

Date Collected: 03/11/04 11:15

Matrix: Water

Date Received: 03/11/04 12:15

Parameters	Results	Units	Report Limit	DF	Analyzed By	CAS No.	Qual	RegLmt
1,1,2,2-Tetrachloroethane	ND	ug/l	5.0	1.0	03/12/04 14:33 HEB	79-34-5		
Bromobenzene	ND	ug/l	5.0	1.0	03/12/04 14:33 HEB	108-86-1		
1,2,3-Trichloropropane	ND	ug/l	5.0	1.0	03/12/04 14:33 HEB	96-18-4		
n-Propylbenzene	ND	ug/l	5.0	1.0	03/12/04 14:33 HEB	103-65-1		
2-Chlorotoluene	ND	ug/l	5.0	1.0	03/12/04 14:33 HEB	95-49-8		
1,3,5-Trimethylbenzene	ND	ug/l	5.0	1.0	03/12/04 14:33 HEB	108-67-8		
4-Chlorotoluene	ND	ug/l	5.0	1.0	03/12/04 14:33 HEB	106-43-4		
1,2,4-Trimethylbenzene	ND	ug/l	5.0	1.0	03/12/04 14:33 HEB	95-63-6		
sec-Butylbenzene	ND	ug/l	5.0	1.0	03/12/04 14:33 HEB	135-98-8		
tert-Butylbenzene	ND	ug/l	5.0	1.0	03/12/04 14:33 HEB	98-06-6		
p-Isopropyltoluene	ND	ug/l	5.0	1.0	03/12/04 14:33 HEB	99-87-6		
1,3-Dichlorobenzene	ND	ug/l	5.0	1.0	03/12/04 14:33 HEB	541-73-1		
1,4-Dichlorobenzene	ND	ug/l	5.0	1.0	03/12/04 14:33 HEB	106-46-7		
n-Butylbenzene	ND	ug/l	5.0	1.0	03/12/04 14:33 HEB	104-51-8		
1,2-Dichlorobenzene	ND	ug/l	5.0	1.0	03/12/04 14:33 HEB	95-50-1		
1,2-Dibromo-3-chloropropane	ND	ug/l	5.0	1.0	03/12/04 14:33 HEB	96-12-8		
1,2,4-Trichlorobenzene	ND	ug/l	5.0	1.0	03/12/04 14:33 HEB	120-82-1		
Hexachloro-1,3-butadiene	ND	ug/l	5.0	1.0	03/12/04 14:33 HEB	87-68-3		
Naphthalene	ND	ug/l	5.0	1.0	03/12/04 14:33 HEB	91-20-3		
1,2,3-Trichlorobenzene	ND	ug/l	5.0	1.0	03/12/04 14:33 HEB	87-61-6		
trans-1,3-Dichloropropene	ND	ug/l	5.0	1.0	03/12/04 14:33 HEB	10061-02-6		
cis-1,3-Dichloropropene	ND	ug/l	5.0	1.0	03/12/04 14:33 HEB	10061-01-5		
2-Chloroethylvinyl ether	ND	ug/l	10.	1.0	03/12/04 14:33 HEB	110-75-8		
Acetone	ND	ug/l	25.	1.0	03/12/04 14:33 HEB	67-64-1		
2-Butanone (MEK)	ND	ug/l	10.	1.0	03/12/04 14:33 HEB	78-93-3		
4-Methyl-2-pentanone (MIBK)	ND	ug/l	10.	1.0	03/12/04 14:33 HEB	108-10-1		
Acrolein	ND	ug/l	50.	1.0	03/12/04 14:33 HEB	107-02-8		
Acrylonitrile	ND	ug/l	50.	1.0	03/12/04 14:33 HEB	107-13-1		
2-Hexanone	ND	ug/l	10.	1.0	03/12/04 14:33 HEB	591-78-6		
Vinyl acetate	ND	ug/l	10.	1.0	03/12/04 14:33 HEB	108-05-4		
Iodomethane	ND	ug/l	10.	1.0	03/12/04 14:33 HEB	74-88-4		
Methyl-tert-butyl ether	ND	ug/l	5.0	1.0	03/12/04 14:33 HEB	1634-04-4		
Carbon disulfide	ND	ug/l	5.0	1.0	03/12/04 14:33 HEB	75-15-0		
trans-1,4-Dichloro-2-butene	ND	ug/l	100	1.0	03/12/04 14:33 HEB	110-57-6		
Ethyl methacrylate	ND	ug/l	100	1.0	03/12/04 14:33 HEB	97-63-2		
Xylene (Total)	ND	ug/l	10.	1.0	03/12/04 14:33 HEB	1330-20-7		
Dibromofluoromethane (S)	100	%				1.0 03/12/04 14:33 HEB	1868-53-7	
Toluene-d8 (S)	97	%				1.0 03/12/04 14:33 HEB	2037-26-5	
4-Bromofluorobenzene (S)	98	%				1.0 03/12/04 14:33 HEB	460-00-4	

Date: 03/16/04

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 5033966
Client Project ID: Michigan Meadows / M01046

PARAMETER FOOTNOTES

Dilution factor shown represents the factor applied to the reported result and reporting limit due to changes in sample preparation, dilution of the extract, or moisture content

- ND Not detected at or above adjusted reporting limit
NC Not Calculable
J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL Adjusted Method Detection Limit
(S) Surrogate
[1] Sample reported from second analysis due to possible carryover in first analysis. JLF 3/16/04.
[2] Hits confirmed as positive values by second analysis ran on 3/15/04 at 20:19.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Lab Project Number: 5033966
Client Project ID: Michigan Meadows / M01046

QC Batch: 66569	Analysis Method: EPA 8260
QC Batch Method: EPA 8260	Analysis Description: GC/MS VOCs by 8260
Associated Lab Samples:	503227126 503227134 503227142 503227159 503227167

METHOD BLANK: 503235582

Associated Lab Samples:	503227126	503227134	503227142	503227159	503227167
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Parameter	Units	Blank Result	Reporting Limit	Footnotes
Dichlorodifluoromethane	ug/l	ND	5.0	
Chloromethane	ug/l	ND	5.0	
Vinyl chloride	ug/l	ND	2.0	
Bromomethane	ug/l	ND	5.0	
Chloroethane	ug/l	ND	5.0	
Trichlorofluoromethane	ug/l	ND	5.0	
Methylene chloride	ug/l	ND	5.0	
1,1-Dichloroethene	ug/l	ND	5.0	
trans-1,2-Dichloroethene	ug/l	ND	5.0	
1,1-Dichloroethane	ug/l	ND	5.0	
2,2-Dichloropropane	ug/l	ND	5.0	
cis-1,2-Dichloroethene	ug/l	ND	5.0	
Chloroform	ug/l	ND	5.0	
Bromochloromethane	ug/l	ND	5.0	
1,1,1-Trichloroethane	ug/l	ND	5.0	
Carbon tetrachloride	ug/l	ND	5.0	
1,1-Dichloropropene	ug/l	ND	5.0	
Benzene	ug/l	ND	5.0	
1,2-Dichloroethane	ug/l	ND	5.0	
Trichloroethene	ug/l	ND	5.0	
1,2-Dichloropropane	ug/l	ND	5.0	
Bromodichloromethane	ug/l	ND	5.0	
Dibromomethane	ug/l	ND	5.0	
Toluene	ug/l	ND	5.0	
1,1,2-Trichloroethane	ug/l	ND	5.0	
Tetrachloroethene	ug/l	ND	5.0	
1,3-Dichloropropane	ug/l	ND	5.0	
Dibromochloromethane	ug/l	ND	5.0	
1,2-Dibromoethane (EDB)	ug/l	ND	5.0	
Chlorobenzene	ug/l	ND	5.0	
1,1,1,2-Tetrachloroethane	ug/l	ND	5.0	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Lab Project Number: 5033966
Client Project ID: Michigan Meadows / M01046

METHOD BLANK: 503235582

Associated Lab Samples: 503227126 503227134 503227142 503227159 503227167

Parameter	Units	Blank	Reporting	
		Result	Limit	Footnotes
Ethylbenzene	ug/l	ND	5.0	
m,p-Xylene	ug/l	ND	5.0	
o-Xylene	ug/l	ND	5.0	
Styrene	ug/l	ND	5.0	
Bromoform	ug/l	ND	5.0	
Isopropylbenzene (Cumene)	ug/l	ND	5.0	
1,1,2,2-Tetrachloroethane	ug/l	ND	5.0	
Bromobenzene	ug/l	ND	5.0	
1,2,3-Trichloropropane	ug/l	ND	5.0	
n-Propylbenzene	ug/l	ND	5.0	
2-Chlorotoluene	ug/l	ND	5.0	
1,3,5-Trimethylbenzene	ug/l	ND	5.0	
4-Chlorotoluene	ug/l	ND	5.0	
1,2,4-Trimethylbenzene	ug/l	ND	5.0	
sec-Butylbenzene	ug/l	ND	5.0	
tert-Butylbenzene	ug/l	ND	5.0	
p-Isopropyltoluene	ug/l	ND	5.0	
1,3-Dichlorobenzene	ug/l	ND	5.0	
1,4-Dichlorobenzene	ug/l	ND	5.0	
n-Butylbenzene	ug/l	ND	5.0	
1,2-Dichlorobenzene	ug/l	ND	5.0	
1,2-Dibromo-3-chloropropane	ug/l	ND	5.0	
1,2,4-Trichlorobenzene	ug/l	ND	5.0	
Hexachloro-1,3-butadiene	ug/l	ND	5.0	
Naphthalene	ug/l	ND	5.0	
1,2,3-Trichlorobenzene	ug/l	ND	5.0	
trans-1,3-Dichloropropene	ug/l	ND	5.0	
cis-1,3-Dichloropropene	ug/l	ND	5.0	
2-Chloroethylvinyl ether	ug/l	ND	10.	
Acetone	ug/l	ND	25.	
2-Butanone (MEK)	ug/l	ND	10.	
4-Methyl-2-pentanone (MIBK)	ug/l	ND	10.	
Acrolein	ug/l	ND	50.	
Acrylonitrile	ug/l	ND	50.	
2-Hexanone	ug/l	ND	10.	
Vinyl acetate	ug/l	ND	10.	

Date: 03/16/04

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Lab Project Number: 5033966

Client Project ID: Michigan Meadows / M01046

METHOD BLANK: 503235582

Associated Lab Samples: 503227126 503227134 503227142 503227159 503227167

<u>Parameter</u>	<u>Units</u>	<u>Blank</u>	<u>Reporting</u>		<u>Footnotes</u>
		<u>Result</u>	<u>Limit</u>		
Iodomethane	ug/l	ND	10.		
Methyl-tert-butyl ether	ug/l	ND	5.0		
Carbon disulfide	ug/l	ND	5.0		
trans-1,4-Dichloro-2-butene	ug/l	ND	100		
Ethyl methacrylate	ug/l	ND	100		
Xylene (Total)	ug/l	ND	10.		
Dibromofluoromethane (S)	%	107			
Toluene-d8 (S)	%	97			
4-Bromofluorobenzene (S)	%	89			

LABORATORY CONTROL SAMPLE: 503235590

<u>Parameter</u>	<u>Units</u>	<u>Spike</u>	<u>LCS</u>	<u>LCS</u>	<u>Footnotes</u>
		<u>Conc.</u>	<u>Result</u>	<u>% Rec</u>	
Dichlorodifluoromethane	ug/l	50.00	33.74	68	
Chloromethane	ug/l	50.00	40.62	81	
Vinyl chloride	ug/l	50.00	44.76	90	
Bromomethane	ug/l	50.00	55.01	110	
Chloroethane	ug/l	50.00	46.72	93	
Trichlorofluoromethane	ug/l	50.00	47.87	96	
Methylene chloride	ug/l	50.00	49.60	99	
1,1-Dichloroethane	ug/l	50.00	55.17	110	
trans-1,2-Dichloroethene	ug/l	50.00	51.78	104	
1,1-Dichloroethane	ug/l	50.00	51.66	103	
2,2-Dichloropropane	ug/l	50.00	49.60	99	
cis-1,2-Dichloroethene	ug/l	50.00	49.21	98	
Chloroform	ug/l	50.00	48.46	97	
Bromochloromethane	ug/l	50.00	56.28	113	
1,1,1-Trichloroethane	ug/l	50.00	52.28	105	
Carbon tetrachloride	ug/l	50.00	52.29	105	
1,1-Dichloropropene	ug/l	50.00	46.31	93	
Benzene	ug/l	50.00	48.32	97	
1,2-Dichloroethane	ug/l	50.00	53.14	106	
Trichloroethene	ug/l	50.00	49.14	98	
1,2-Dichloropropane	ug/l	50.00	50.88	102	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Lab Project Number: 5033966

Client Project ID: Michigan Meadows / M01046

LABORATORY CONTROL SAMPLE: 503235590

Parameter	Units	Spike Conc.	LCS Result	% Rec	Footnotes
Bromodichloromethane	ug/l	50.00	53.63	107	
Dibromomethane	ug/l	50.00	50.71	101	
Toluene	ug/l	50.00	46.56	93	
1,1,2-Trichloroethane	ug/l	50.00	51.40	103	
Tetrachloroethene	ug/l	50.00	36.99	74	
1,3-Dichloropropane	ug/l	50.00	50.02	100	
Dibromochloromethane	ug/l	50.00	46.40	93	
1,2-Dibromoethane (EDB)	ug/l	50.00	46.27	92	
Chlorobenzene	ug/l	50.00	50.03	100	
1,1,1,2-Tetrachloroethane	ug/l	50.00	46.69	93	
Ethylbenzene	ug/l	50.00	44.80	90	
m,p-Xylene	ug/l	100.00	93.11	93	
o-Xylene	ug/l	50.00	44.92	90	
Styrene	ug/l	50.00	43.98	88	
Bromoform	ug/l	50.00	44.62	89	
Isopropylbenzene (Cumene)	ug/l	50.00	42.94	86	
1,1,2,2-Tetrachloroethane	ug/l	50.00	42.88	86	
Bromobenzene	ug/l	50.00	49.93	100	
1,2,3-Trichloropropane	ug/l	50.00	34.62	69	
n-Propylbenzene	ug/l	50.00	48.13	96	
2-Chlorotoluene	ug/l	50.00	48.04	96	
1,3,5-Trimethylbenzene	ug/l	50.00	49.48	99	
4-Chlorotoluene	ug/l	50.00	48.86	98	
1,2,4-Trimethylbenzene	ug/l	50.00	52.75	106	
sec-Butylbenzene	ug/l	50.00	48.40	97	
tert-Butylbenzene	ug/l	50.00	44.10	88	
p-Isopropyltoluene	ug/l	50.00	48.04	96	
1,3-Dichlorobenzene	ug/l	50.00	49.32	99	
1,4-Dichlorobenzene	ug/l	50.00	51.79	104	
n-Butylbenzene	ug/l	50.00	51.97	104	
1,2-Dichlorobenzene	ug/l	50.00	52.82	106	
1,2-Dibromo-3-chloropropane	ug/l	50.00	54.23	108	
1,2,4-Trichlorobenzene	ug/l	50.00	62.84	126	
Hexachloro-1,3-butadiene	ug/l	50.00	54.91	110	
Naphthalene	ug/l	50.00	65.11	130	
1,2,3-Trichlorobenzene	ug/l	50.00	63.58	127	
trans-1,3-Dichloropropene	ug/l	50.00	46.61	93	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Lab Project Number: 5033966
Client Project ID: Michigan Meadows / M01046

LABORATORY CONTROL SAMPLE: 503235590

Parameter	Units	Spike	LCS	LCS	% Rec	Footnotes
		Conc.	Result	% Rec		
cis-1,3-Dichloropropene	ug/l	50.00	46.57	93		
Methyl-tert-butyl ether	ug/l	100.00	103.7	104		
Xylene (Total)	ug/l	150.00	138.0	92		
Dibromofluoromethane (S)				101		
Toluene-d8 (S)				94		
4-Bromofluorobenzene (S)				103		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 503235608 503235616

Parameter	Units	503228868	Spike	MS	MSD	MS	MSD	RPD	Footnotes
		Result	Conc.	Result	Result	% Rec	% Rec		
1,1-Dichloroethene	ug/l	0	50.00	58.60	59.08	117	118	1	
Benzene	ug/l	0	50.00	50.97	50.83	102	102	0	
Trichloroethene	ug/l	3.001	50.00	56.39	53.70	107	101	5	
Toluene	ug/l	0	50.00	49.42	48.67	99	97	2	
Chlorobenzene	ug/l	0	50.00	53.52	51.00	107	102	5	
Dibromofluoromethane (S)						103	106		
Toluene-d8 (S)						97	96		
4-Bromofluorobenzene (S)						105	103		

Date: 03/16/04

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 5033966

Client Project ID: Michigan Meadows / M01046

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D)	Laboratory Control Sample (Duplicate)
MS(D)	Matrix Spike (Duplicate)
DUP	Sample Duplicate
ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
RPD	Relative Percent Difference
(S)	Surrogate

Date: 03/16/04

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REPORT OF LABORATORY ANALYSIS

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733249

Required Client Information: Section A

Company: 429 E Vermont St., Suite 200
 Address: Suite 200, 429 E. Vermont St.
 MUNIZ & Associates
 Phone: 319-286-8200 Fax: 319-286-8202

Required Client Information:**Section B**

Report to: James L. Wieden

Copy To:

Invoice To: Muniz & Associates

P.O. 123456789

Project Name: Muniz & Associates

Phone: 319-286-8200

Fax: 319-286-8202

Project Number: MO1046

Page: / of /

Client Information (Check quote/contract):

Requested Due Date:

TAT: 2 weeks

* Turn around times less than 14 days subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.

Turn Around Time (TAT) in calendar days.

To Be Completed by Pace Analytical and Client

Section C

Quote Reference:

Project Manager:

Project #:

Profile #:

Requested Analysis:

Vc
8760**Remarks / Lab ID****Section D Required Client Information:****SAMPLE ID**

One character per box.
 (A-Z, 0-9 / -)
 Sample IDs MUST BE UNIQUE

ITEM #	MATRIX CODE	DATE COLLECTED	TIME COLLECTED	Preservatives							Remarks / Lab ID		
				# Containers	Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ SO ₄	Methanol		
1	L	3/1/04	4:30A	3	X								X
2	6	N-31-64	9:45A	3									X
3	6	3/1/04	10:15A	3	X								X
4	6	N-31-64	10:45A	3	X								X
5	1	N-31-64	11:15A	3	X								X
6													
7													
8													
9													
10													
11													
12													

SHIPMENT METHOD	AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS	ITEM NUMBER	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
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3/1/04	3/1/04	3/1/04	3/1/04	3/1/04	3/1/04	3/1/04	12:15
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SAMPLE CONDITION **SAMPLE NOTES**

Temp in °C	60
Received on Ice	Y/N
Sealed Cooler	Y/N
Samples Intact	Y/N

Additional Comments:

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

James L. Wieden

SIGNATURE of SAMPLER:



DATE Signed: (MM / DD / YY)

3/1/04